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Page 1 of 7  
MAR 05 2001  
TECH CENTER 1600/2900 1635  
#8/Raw  
Seq listing  
Entered

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/548,449

DATE: 03/02/2001  
TIME: 09:03:50

Input Set : A:\917501-1.txt  
Output Set: N:\CRF3\03022001\I548449.raw

4 <110> APPLICANT: Norris et al.  
6 <120> TITLE OF INVENTION: TISSUE-SPECIFIC AND PATHOGEN-SPECIFIC TOXIC AGENTS  
7 AND RIBOZYMES  
9 <130> FILE REFERENCE: 9175-016-999  
11 <140> CURRENT APPLICATION NUMBER: 09/548,449  
12 <141> CURRENT FILING DATE: 2000-04-13  
14 <150> PRIOR APPLICATION NUMBER: 09/291,904  
15 <151> PRIOR FILING DATE: 1999-04-14  
17 <160> NUMBER OF SEQ ID NOS: 14  
19 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 66  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Artificial Sequence  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: LEASHI promoter  
29 <400> SEQUENCE: 1  
30 gatcctcaga aaatttattt aaatttccaa ttgacattgt gagcggataa caatataatg 60  
31 tgtgga 66  
33 <210> SEQ ID NO: 2  
34 <211> LENGTH: 74  
35 <212> TYPE: DNA  
36 <213> ORGANISM: Artificial Sequence  
38 <220> FEATURE:  
39 <223> OTHER INFORMATION: Modified rrnb promoter  
41 <400> SEQUENCE: 2  
42 agaaaagcaaa aataaatgt tgacactgta gcgggaaggc gtataatgga attgtgagcg 60  
43 gataacaatt caca 74  
45 <210> SEQ ID NO: 3  
46 <211> LENGTH: 492  
47 <212> TYPE: DNA  
48 <213> ORGANISM: Artificial Sequence  
50 <220> FEATURE:  
51 <223> OTHER INFORMATION: ANR promoter  
53 <400> SEQUENCE: 3  
54 actcgccgat catcttcacc atcgccgca actcctgcgg gatatcctcg tcctcctcct 60  
55 ccacccggcac ccccatggta gcggccagct cgcgcctgc ctggaaagc tgacatgt 120  
56 gateggggc gtcgggtgcgg gggccgggt cttccgcctg ctggcggtg ccggccgtg 180  
57 cggccttggc gtccggggcg ggcgcgcgtg agggcggcac ctgggtggat atccagccac 240  
58 tgagggtcaa cattccagtc actccggaa aatggaaatt cttccattgg atcggcccac 300  
59 gcgtcgccaa ctttgcggcc cttttcgatc ccccttgaca gggtgccgaca ggtatgcga 360  
60 gttgtttgac gcaagtcaact gattggaaac gccatcgcc tgtcagaaat ggtcggtgcc 420  
61 agacctatgg ctggcacccg catcgccgatc gcttaccct tactcctgtt gtgcctttaa 480  
62 ccttagcaagg ac 492  
64 <210> SEQ ID NO: 4  
65 <211> LENGTH: 1113  
66 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 03/02/2000  
PATENT APPLICATION: US/09/548,449 TIME: 09:03:50

Input Set : A:\917501-1.txt  
Output Set: N:\CRF3\03022001\1548449.raw

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123	gcttttagttt	taacaacagt	aggttcaggt	tttcattctt	cttcaaaatta	taatggattt	780												
124	aataacgttg	aaaaagctga	gcaaacgaca	gataacgcac	tgtggaaaaa	tgttaagagac	840												
125	gctttaaaag	acgcgaatat	tatcgataaa	acagataatg	aaaatgtcaa	ggttacgtat	900												
126	aaaatagaaaa	atggtgaaaa	aaataccata	gaaggaacag	ttaattttaga	aaatatttagt	960												
127	acttcaaaaca	atcctaaaat	aaaccctcaa	aatgttacaa	aaatataat	aactagaaaa	1020												
128	aatccgaact	accctaataat	tgtgctaat	aatacatgga	aaaaattacc	agaaaaatttg	1080												
129	aaagaaaaaa	atatagtgga	acaacggcga	caatgttca	atcttaagta	cagaccctaa	1140												
130	agatgagact	gtattcggt	aaggagaga	agataaaatca	aacgtaaagca	atagatacat	1200												
131	caatcctaaa	gatataaaatg	aattcaaatac	actaaaaata	ctttttccg	aggcagatta	1260												
132	ctcctgcctc	tttctttgaa	cagtgatatac	ttctgtatca	tgtaacactc	aattacttca	1320												
133	gattctttac	ctttaacttc	ctttaattca	tttctctcta	tctcctcaaa	aagttgtgct	1380												
134	ttttgatttg	tgattggagt	tggcggttt	ttcatcgct	tgttcaatt	cotttttaag	1440												
135	gtattctaat	tctcttctag	tcatatcaat	tgttttttta	cttctcacct	ttagtgaaat	1500												
136	actcttatcc	tttctcttct	tgcgttaatg	ttgctaatta	gtataaaata	catgcgccc	1560												
137	tatattccaa	tggtaggaca	ttaattctg	gattttcagc	tattttcata	aatctattat	1620												
138	ctgataat	gtttaatcca	atttcaagc	catagcctaa	attcccccata	cactaagtca	1680												
139	tttggtttca	tatggtttta	atctacggcc	aatctcaag	atagattgac	cagcgatgtt	1740												
140	taaagtctata	tttcacggat	ccacatttac	gataaaacata	tctagttaca	caatattatc	1800												
141	ccttactgca	acacaggacg	tttctcagcg	taaaaaacac	cactagaaag	tgactttaaa	1860												
142	gaatataact	aattcaact	tatattaat	aatattctt	aatgaccac	tcacacttgc	1920												
143	tttttgcata	tttgcataactt	taaaatgtt	tttgcataat	atattttt	gatatagotc	1980												
144	cctatgtaac	aaacaat	tttaataat	atattaaac	aagtcaat	tttgcgtt	2040												
145	taattcgatt	catttaataa	atatttatac	attctataat	taaagcttta	cacatttgaa	2100												
146	gttaaggagaa	ttaaaaata	gtttaatgt	tttttttttt	tttttttttt	tttttttttt	2120												
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149	<211>	LENGTH:	177																
150	<212>	TYPE:	DNA																
151	<213>	ORGANISM:	Artificial Sequence																
153	<220>	FEATURE:																	
154	<223>	OTHER INFORMATION:	P1 pac site																
156	<221>	NAME/KEY:	CDS																
157	<222>	LOCATION:	(1)...(177)																
159	<400>	SEQUENCE:	7																
160	cca	cta	aaa	agc	atg	atc	att	gat	cac	tct	aat	gat	caa	cat	gca	ggt	48		
161	Pro	Leu	Lys	Ser	Met	Ile	Ile	Asp	His	Ser	Asn	Asp	Gln	His	Ala	Gly			
162	1					5				10				15					
164	gat	cac	att	gct	gaa	ata	gct	gaa	aaa	caa	aga	gtt	aat	gcc	gtt		96		
165	Asp	His	Ile	Ala	Ala	Glu	Ile	Ala	Glu	Lys	Gln	Arg	Val	Asn	Ala	Val			
166						20				25				30					
168	gtc	agt	gcc	gca	gtc	gag	aat	gct	aag	cgc	caa	aat	aag	cgc	ata	aat	144		
169	Val	Ser	Ala	Ala	Val	Glu	Asn	Ala	Lys	Arg	Gln	Asn	Lys	Arg	Ile	Asn			
170						35				40			45						
172	gat	cgt	tca	gat	gat	cat	gac	gtg	atc	acc	cgc						177		
173	Asp	Arg	Ser	Asp	Asp	His	Asp	Val	Ile	Thr	Arg								
174						50				55									
177	<210>	SEQ ID NO:	8																
178	<211>	LENGTH:	13																
179	<212>	TYPE:	DNA																
180	<213>	ORGANISM:	Artificial Sequence																

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Input Set : A:\917501~1.txt  
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182 <220> FEATURE:  
 183 <223> OTHER INFORMATION: IHF binding site  
 185 <221> NAME/KEY: modified\_base  
 186 <222> LOCATION: all "n" positions  
 187 <223> OTHER INFORMATION: n=a, c, g, or t  
 189 <400> SEQUENCE: 8  
 190 aatcaannan tta 13  
 193 <210> SEQ ID NO: 9  
 194 <211> LENGTH: 45  
 195 <212> TYPE: DNA  
 196 <213> ORGANISM: Artificial Sequence  
 198 <220> FEATURE:  
 199 <223> OTHER INFORMATION: DicF1 molecule  
 201 <400> SEQUENCE: 9  
 202 caggcgacag gtatagtttc tctccgattt gtgcctgtcg cctgc 45  
 204 <210> SEQ ID NO: 10  
 205 <211> LENGTH: 172  
 206 <212> TYPE: RNA  
 207 <213> ORGANISM: Artificial Sequence  
 209 <220> FEATURE:  
 210 <223> OTHER INFORMATION: ribozyme  
 212 <221> NAME/KEY: modified\_base  
 213 <222> LOCATION: all "n" positions  
 214 <223> OTHER INFORMATION: n=a, c, g, or u  
 216 <400> SEQUENCE: 10  
 217 gcggccgcuc gagcucugau gaguccguga ggacgaaacg guaccggua ccgcucagcuc 60  
 218 gagaucucun nnnnnncuga ugaguccug aggacgaaan nnnnagaucc gucgacggau 120  
 219 cuagauccgu ccugaugagu ccugugaggac gaaacggaua ugcagcggcc gc 172  
 221 <210> SEQ ID NO: 11  
 222 <211> LENGTH: 242  
 223 <212> TYPE: RNA  
 224 <213> ORGANISM: Artificial Sequence  
 226 <220> FEATURE:  
 227 <223> OTHER INFORMATION: ribozyme  
 229 <221> NAME/KEY: modified\_base  
 230 <222> LOCATION: all "n" positions  
 231 <223> OTHER INFORMATION: n=a, c, g, or u  
 233 <400> SEQUENCE: 11  
 234 aagcuuugga acccugaua guccgugagg acgaaacgau gacauucugc ugaccagauu 60  
 235 cacggucagc agaaauguaua cgucggaucc agaucnnnn nncugaugag uccgugagga 120  
 236 cggaaannnnnn nnngcaagg gucugcgaa cgcacgau gagguaaccac auctgucgucg 180  
 237 uugcgcacug augaggccgu gaggccgaaa cccuugacgc guuccuaugc ggcgcucua 240  
 238 ga  
 240 <210> SEQ ID NO: 12  
 241 <211> LENGTH: 14  
 242 <212> TYPE: DNA  
 243 <213> ORGANISM: Artificial Sequence  
 245 <220> FEATURE:  
 246 <223> OTHER INFORMATION: consensus ribosome binding site

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Input Set : A:\917501-1.txt

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248 <221> NAME/KEY: modified\_base  
249 <222> LOCATION: (8)...(11)  
250 <223> OTHER INFORMATION: n=a, c, g, or t  
252 <400> SEQUENCE: 12

14

OK&gt; 253 ggaggtgnnn natg

255 &lt;210&gt; SEQ ID NO: 13

256 &lt;211&gt; LENGTH: 16

257 &lt;212&gt; TYPE: DNA

258 &lt;213&gt; ORGANISM: Artificial Sequence

260 &lt;220&gt; FEATURE:

261 &lt;223&gt; OTHER INFORMATION: promoter

263 &lt;400&gt; SEQUENCE: 13

16

264 gagtcgacgg atccgg

266 &lt;210&gt; SEQ ID NO: 14

267 &lt;211&gt; LENGTH: 17

268 &lt;212&gt; TYPE: DNA

269 &lt;213&gt; ORGANISM: Artificial Sequence

271 &lt;220&gt; FEATURE:

272 &lt;223&gt; OTHER INFORMATION: promoter

274 &lt;400&gt; SEQUENCE: 14

17

275 tgggggtggg ggtgggg

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/548,449

DATE: 03/02/2001

TIME: 09:03:51

Input Set : A:\917501~1.txt  
Output Set: N:\CRF3\03022001\I548449.raw

L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12